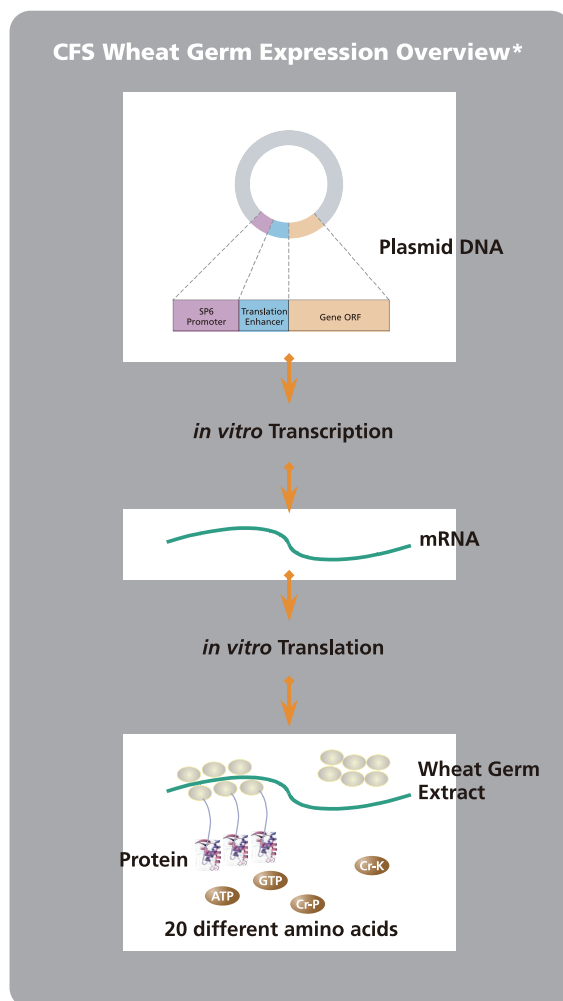


Custom Service for Monoclonal Antibody Production

Abnova offers monoclonal antibody (Mab) development in mice and rats, with guaranteed success based on standard endpoints or customer's specific applications. Our high rate of success, short turn-around time and affordable cost are due to our proprietary hybridoma technology, state-of-the-art, specific pathogen free (SPF) facility, extensive experience in antibody production for over 10,000 gene targets, and flexibility to suit our customer's needs.

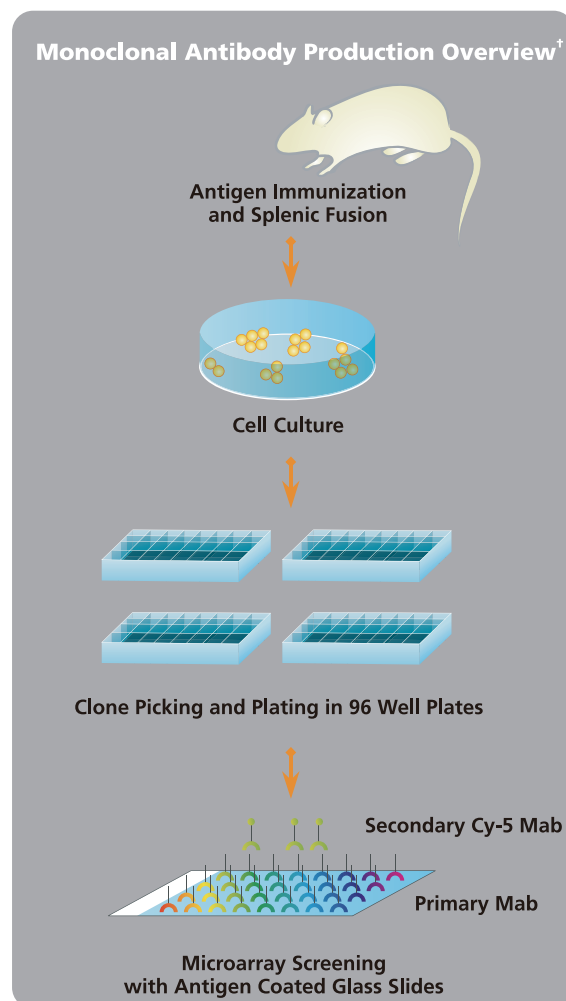


Advantages:

- High Solubility
- High Yield
- High Success Rate
- Automated Expression and Purification
- Native Protein Conformation

*Under license from CFS, abbreviation of CellFree Sciences Co. Ltd., Japan.

Sawasaki T, Ogasawara T, Morishita R, Endo Y. A cell-free protein synthesis system for high-throughput proteomics. Proc Natl Acad Sci U S A. 2002 Nov 12;99(23):14652-7



Advantages:

- Multiple Antigen Immunization
- Robotic Monoclonal Isolation
- Multiplex Antigen Microarray Screening
- Clone Delivery in 12 Weeks
- Ideal for Phospho-Specific Antibody Production

†Under license from EMBL, abbreviation of European Molecular Biology Laboratory.

De Masi F, Chiarella P, Wilhelm H, Massimi M, Bullard B, Ansong W, Sawyer A. High throughput production of mouse monoclonal antibodies using antigen microarrays. Proteomics. 2005 Nov;5(16):4070-81

Services Items		Standard Package	Premium Package	
Phase I	Payment 1	(USD/EUR) Non-refundable startup fee	\$2,000	Quote
	Antigen Preparation	Customer-supplied antigen (protein)* Please quote if the customer requires antigen prepared by Abnova**	√	√
		Customer-supplied antigen (peptide)* Please quote if the customer requires antigen prepared by Abnova**		
	Immunization	Number of mice / rat immunized will be specified by the customer		√
Phase II	Fusion & Screening	Immunization of mice / rat and hybridoma fusion	√	
		ELISA screen up to 1000 hybridoma clones	√	
		Stabilization of up to 10 positive clones	√	
		Any mice / rat that shows a customer's required titer will be used to create ELISA positive monoclonal antibodies		√
	Final Deliverables	ELISA data and up to 10 clones of ELISA-positive hybridoma clones*** and culture supernatants (3ml/clone).	√	
		The ELISA-positive monoclonal antibodies will be delivered to customer in the format of 200 µg purified Mabs. Customer will test the purified Mab on specific applications to determine the number of positive monoclonal antibodies.		√
	Payment 2	(USD/EUR) Non-refundable	\$3,000	Quote (per mouse hybridoma project)
Lead time	(Month)	3~3.5		
Phase III	Hybridoma Delivery	Customer will request hybridomas deemed suitable for customer's needs and pay Abnova for each hybridoma***		√
	Payment 3	(USD/EUR) Payment 3 is only paid upon hybridoma delivery		Quote (per hybridoma)
Total Price (USD/EUR)			\$5,000	Starting at \$10,000

***Antigen Requirement (provided by customer):**

- Protein Immunization: 0.3~0.6mg
- Peptide Immunization:
Conjugated-peptide (0.5mg) for immunization and Free-peptide (0.5mg) for screening step

****Immunogen Provided by Abnova:**

- Purified recombinant protein: additional 2,500 USD/EUR service fee will be charged by Abnova. Setup fee 1,000 USD/EUR, or
- Peptide and Phosphopeptide: please refer to peptide synthesis service
- Abnova may obtain from a source subject to customer's approval, and invoice the cost to the customer.

Lead time: 1~1.5 month

*****Cell Line Storage (3 vials/cell line/year) - 50 USD/EUR**